Cloud Computing Feasibility Report

caBIG™ Architecture WS Cloud Computing Working Group

DRAFT: OUTLINE

Delivered to:
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Table of Contents

Table of Figures

No table of figures entries found.

In your document, select the words to include in the table of contents, and then in the Formatting Palette under Styles, click a heading style. Repeat for each heading that you want to include, and then insert the table of contents in your document. You can also create a table of contents by clicking the Create with Manual Formatting option and then type the entries manually.

1. EXECUTIVE SUMMARY

Executive Summary. Identify the key goals of this effort:

- *Goal 1 (G1)*

- *Goal 1 (G2)*

- *Goal 1 (G3)*

1.1 A Day in the Life

Describe what CBIIT, cancer centers, etc. might look like after successful implementation of recommendations.

2. APPROACH

Describe overall approach that we used for the project (Goals, Risks, Findings, etc.).

2.1.1 Goals

Very brief description of purpose of goals for the cloud initiative and how they relate to risks, findings, etc.

2.1.2 Artifacts

Very brief description of purpose of artifacts for this initiative and how they relate to risks, findings, etc.

2.1.3 Interviews and Meetings

Very brief description of purpose of interviews and meetings for this initiative and how they relate to risks, findings, etc.

Findings

Very brief description of purpose of findings for this initiative and how they relate to risks, findings, etc.

2.1.4 Risks

Very brief description of purpose of risks for this initiative and how they relate to goals, findings, etc.

2.1.5 Recommendations and Roadmap

Very brief description of purpose of recommendations and roadmap for this initiative and how they relate to goals, findings, etc.

3. GOALS

Describe the overall goals of this project and how they relate to the artifacts, risks, findings,

Cloud Working Group Goals
TBD
TBD

recommendations, etc.

4. ARTIFACTS

Describe Artifacts.

#	Artifact	Description
A1	Artifact Name	TBD
A2	Artifact Name	TBD

5. INTERVIEWS AND MEETINGS

Describe.

Topic	Attendees	Date
Topic 1	Attendees	1/1/2010
Topic 1	Attendees	1/1/2010

6. FINDINGS

Describe.

#	Finding	Description
F1	TBD	TBD
F2	TBD	TBD

6.1 Cloud Provider Comparison

Compare each cloud provider and why we chose the 2-3 finalists…

- *Provide Name*

- *Public/Private*

- *Well Documented?*

- *Links to Information – For example: SLA, Security, Pricing*

- *Instance Types Available (Size, etc.)*

- *Operating Systems Options*

- *Maturity*

- *Pros*

- *Cons*

6.2 The Finalists

The two to three…

6.2.1 Cloud Provider #1

Detailed Description.

6.2.2 Cloud Provider #2

Detailed Description.

6.3 Metrics Evaluation

Performance and cost metrics with the side-by-side comparisons (e.g. VMWare, Two Cloud Providers)

7. RISKS

A risk is the potential a problem will occur. A risk that has actually occurred is a problem. Recommendations focus on risks that are highest in impact and in likelihood to prevent CBIIT from meeting its goals.

7.1 Risks without On-Demand Self-Service Applications

#	Risk	Likelihood	Impact
R1	TBD	Medium	Medium
R2	TBD	High	High
R3	TBD	Medium	Medium

7.2 Risks with On-Demand Self-Service Applications

#	Risk	Likelihood	Impact
R1	TBD	Medium	Medium

#	Risk	Likelihood	Impact
R2	TBD	High	High
R3	TBD	Medium	Medium

8. RECOMMENDATIONS AND ROADMAP

Describe.

8.1 Recommendations

These are recommendations of how to implementation overall solution, not on specific cloud providers.

#	Recommendation	Risk(s)	Finding(s)
RC1	TBD	R1, R2, R8, R9, R10, R11, R12, R15, R17	F1, F6, F17, F25, F28, F29, F61, F67

8.1.1 Recommendation # 1

Describe the recommendation.

8.1.1.1 Positive Impact on Current Environment

Describe the recommendation.

8.1.1.2 Implementation Approach

Describe the recommendation.

8.1.1.3 Staff/Resource Projections

Describe the recommendation.

8.1.1.4 Direct Costs for Implementation

Describe the recommendation.

8.1.1.5 Recommended Timing

Describe the recommendation.

8.2 Roadmap

A projected timeline of implementation (if feasible)

9. IMPLEMENTATION AT CANCER CENTER

Describe the implementation of the caArray project at a cancer center using a cloud infrastructure. Show screenshots/URLs of implementation and general usage documentation. (More detailed usage documentation will be provided through NCI's wiki).